

UQAT Forest Research Institute:
Overview of research expertise and
contributions to NEWFORESTS



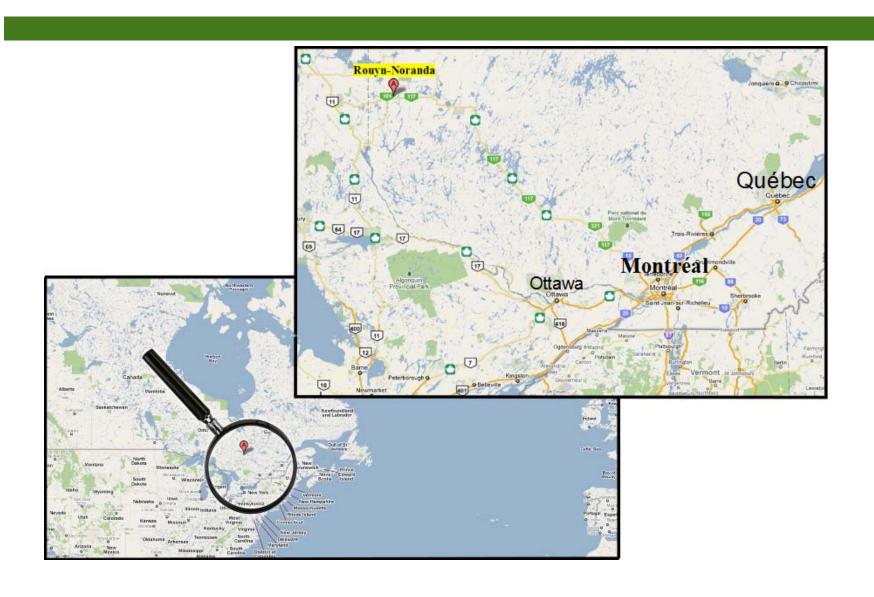
Where is «Abitibi-Témiscamingue»?



Some facts:

- □ Area : 65 143 km²
 (Catalonia = 31 950 km²)
- Population: 145 835 (Catalonia = 7 535 251)
- 97% French-speaking (English = 2%, Algonquin 1%)

How remote? 512 km from Montreal...



What is «Abitibi-Témiscamingue»?

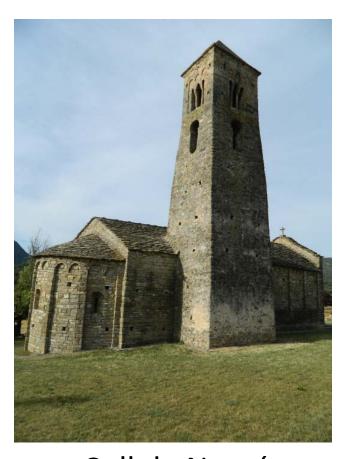




Some facts:

- Colonised mostly between 1910-1940
- Main natural resources: forestry and mining
- Unemployment rate = 5,2% (France = 10,9%, Spain = 25,8%)

What is there to see?



■ Coll de Nargó (eleventh century)



■ Rapide-Danseur (1942)

Forestry in Abitibi-Témiscamingue

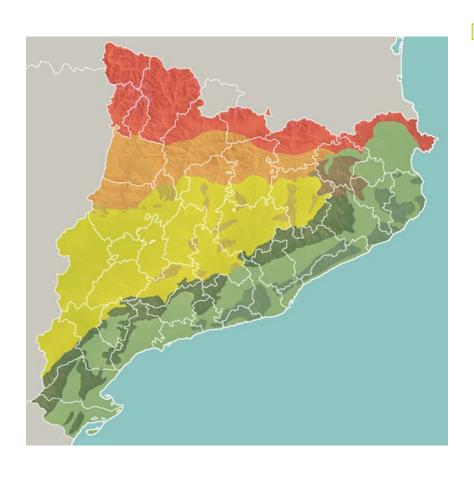


- Some facts:
 - Up to 450 000 m³ harvested / year
 - 75% of this volume in coniferous species
 - 5 215 direct jobs in 2010

Black Spruce (*Picea mariana*)

Jack Pine (Pinus banksiana)

Importance of logging in Québec



- Approximately 300 000 ha
 (3 000 km²) of mature
 coniferous forests / year
 - 10 years ~ area of Catalonia (31 950 km²)



A few pictures...

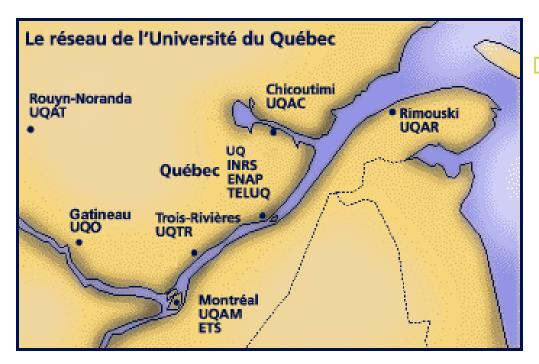


A few pictures...



What is «UQAT»?





- "Université du Québec" network
 - Created in 1968
 - 6 main universities
 - **87** 000 students

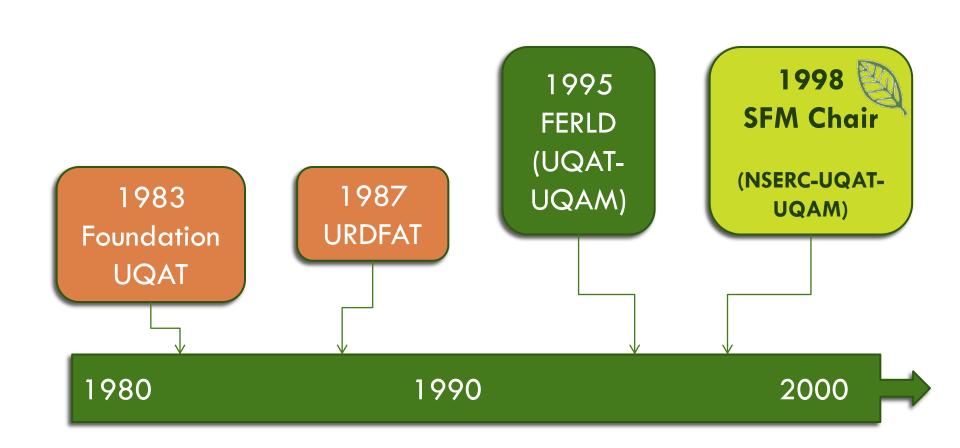
- Main goals:
 - Increase access to higher education
 - Contribute to the development of regions



- Rouyn-Noranda (main campus)
 - 1530 students (vs 57 000 in UQ network)
 - Research grants: 213 000\$ per professor (vs 89 000\$)

A Brief history





What is an industrial chair?

Funded jointly by NSERC and industry



- Provides funding for the salary of the Chairholder, general expenses related to the Chair's program of research
- Assist universities in building critical mass required for a research endeavour of interest to industry
- Provide an enhanced training environment for graduate students by exposing them to significant ongoing interactions with the industrial partner(s)

Who is the Chairholder?

Joined UQAM as a professor in 1985



- Research themes:
 - Historical reconstitution and characterization of natural and anthropic disturbance regimes
 - Find out how stand and landscape silvicultural operations can emulate natural disturbances

>300 publications to date...

Mission



The mission of the Chair is to assure the development and quality of :

- **✓ RESEARCH**
- ✓ TRAINING and
- **✓ TECHNOLOGICAL TRANSFER**

Necessary for the development and application of strategies and practices of **SUSTAINABLE FORESTRY MANAGEMENT**

Research themes





UQAT Researchers



Yves Bergeron



Suzanne Brais



Annie Desrochers



Brian Harvey







Louis Imbeau Ahmed Koubaa Francine Tremblay



Osvaldo Valeria

UQAT Researchers



Igor Drobyshev



Nicole Fenton



Hugo Asselin

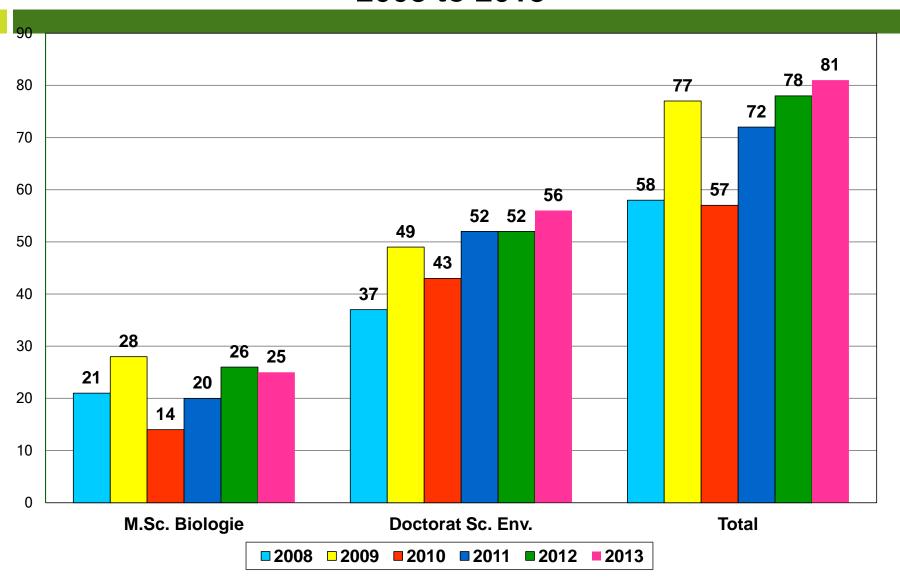


Marc Mazerolle

Research programs offered

- UQAT
 - □ Ph.D. in environmental sciences
 - M.Sc. in biology
 - Professional M.Sc. in sustainable forest management

M.Sc. and Ph.D. Students 2008 to 2013





Precious Industrial Partners

- Tembec
- Norbord Industries Inc.
- Scierie Landrienne
- Matériaux Blanchet Inc.
- Resolute Forest Products
- Commonwealth Plywood Inc.
- Eacom Timber Corporation
- Québec Ministry of Natural Resources and Wildlife
- Regional conferences of Abitibi-Témiscamingue and North-of-Québec regions
- Canadian Forest Service
- Sustainable Forest Management Network
- Union of wood producers in Abitibi-Témiscamingue
- Regional agencies of private forests for the valorisation of wood products in A-T
- Barrette-Chapais Ltd and Chantier Chibougamau

















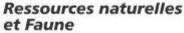




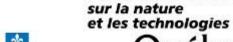


Université du Québec en Abitibi-Témiscamingue











Fonds de recherche







Développement économique Canada

Canada Economic Development



Ressources naturelles Canada

Canada

Natural Resources Canada







Canada Foundation for Innovation





SUSTAINABLE FOREST MANAGEMENT NETWORK

















Technologic transfer

- Research seminars (all in videoconference)
- Annual regional meetings of the SFM Chair
- International Symposiums (e.g. ecological services of deadwood, international symposium on root development)
- Field visits of study sites
- Technology transfer articles in magazines
- Research notes

Contribution to NEWFORESTS

- European students and researchers are welcome!
 - Field research station
 - Student residences





Contribution to NEWFORESTS

All UQAT researchers may « fit » into some working

packages... New examples:

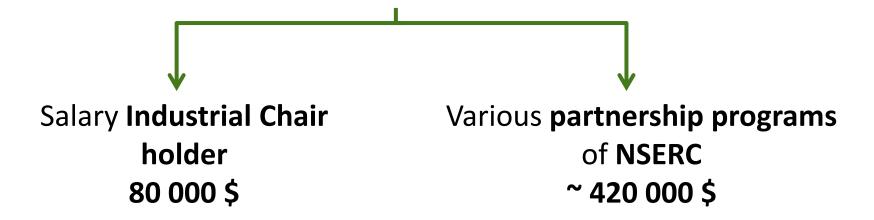
- Bonet Brais
- Camprodon Imbeau
- CREAF Mazerolle
- More to come!



Research funding

Annual contribution of **industrial partners** to **Universities**~500 000 \$

(contribution to **Research** from **harvesting royalties** to the Ministry of Natural Resources and **direct contributions**)



How research funds are allocated?

- **Evaluation of relevance** of research proposals by **all partners** (industry, Provincial and regional government levels)
- Reception and priorisation of projects by the SFM Chair scientific committee
 (3 from industries, 1 from private forest owners, 2 from provincial and 2 from regional governments)
- All given funds are conditional to the obtention by researchers (or students) of an equivalent grant in a peer-reviewed grant application program (NSERC, FRQNT).

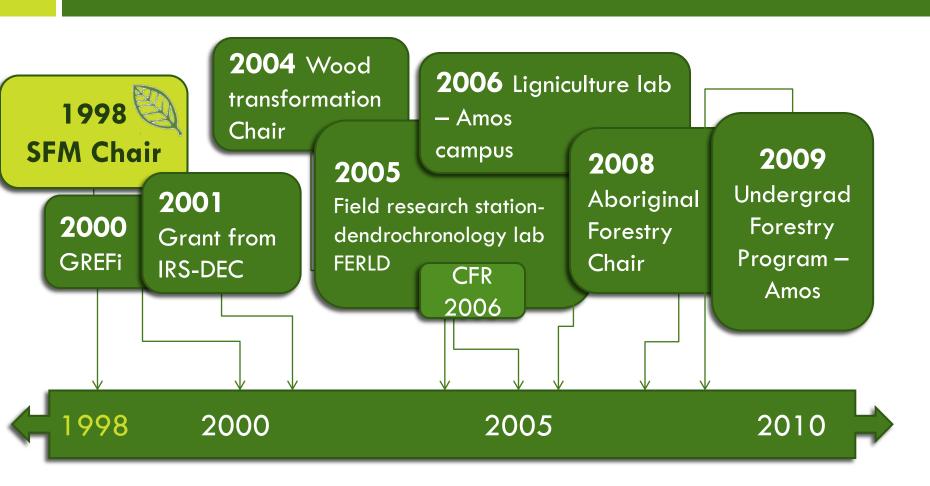
Main funding sources

- NSERC (Natural Sciences and Engineering Research
 - Council Canada)
 - Industry-Driven Collaborative Research and Development Program
 - Training in industry programs (Industrial Postgraduate Scholarships)
 - Discovery Grants Program
- FRQNT (Research in natural sciences Québec)
 - Partnership in forest management
 - Team research project program
 - New researchers start-up program

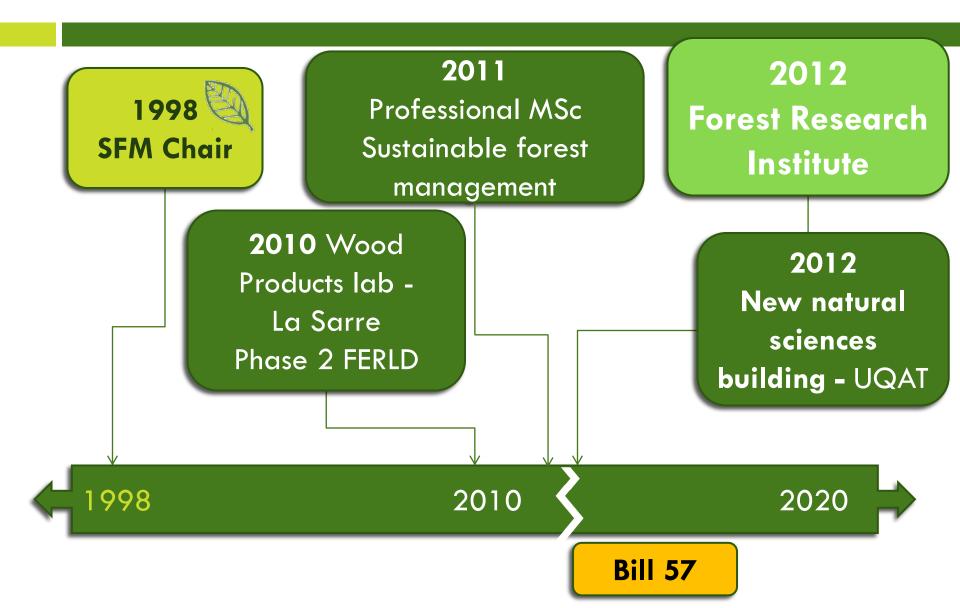


Brief history





Future of forest research at UQAT



What about me?



MAIN RESEARCH THEMES

- Evaluate the importance of snags, tree cavities as well as coarse woody debris recruitment for various taxa (birds, mammals)
- Effects of clearcut logging, partial cuts and intensive silvicultural approaches on game species (e.g. marten, hare, grouse)